

# BASQUE INDUSTRY 4.0

The meeting point **2019**

4.0 INDUSTRIA ETA  
ZIBERSEGURTASUNAREN ARLOKO  
ERREFERENTZIAZKO EKITALDIAREN  
VI. EDIZIO BERRITU ETA HANDITUA

— PRENTSA DOSSIERRA —

**Azaroak 20 eta 21**  
BILBAO EXHIBITION CENTRE.  
2. Pabilioia. Ansio-Barakaldo.



# BEGIRADA BAT TEKNOLOGIAREN ETA IKERKETAREN ETORKIZUNARI

Basque Industry 4.0. The Meeting Point ekitaldian aukera izango da 4.0 Industriaren inguruko eragile publiko, pribatu eta enpresa guztien ezagutzak eta esperientziak partekatzeko.

Topaketa hau prozesu industrialak optimizatzeko balio duten **EIKT tresnetan** zentratzen da. Diseinurako, garapenerako, produkzioarako, logistikarako eta fabrikazioaren kudeaketa integraturako tresna adimendunak.

Bi egunez azalduko dira esperientziak, joerak, estrategiak, iritziak, tailerrak, erakusketak eta arlo horietako adituen ikuspegiak, eta gune egoki bat atonduko da networking-erako.

Erakusketa eremu handiagoan bilduko diren **170** standen artean, Basque Research & Technology Alliance (BRTA) partzuergoari atxikitako zentro teknologikoak, 4.0 Industriako euskal enpresa nagusiak eta BIND 4.0 programako startupak izango dira.

Kongresua 2014an egin zen lehen aldiz, eta ongi errotutako topaketa bat da une honetan. La edición anterior contó con más de 130 empresas, 1.880 asistentes y cerca de 100 ponentes.

Nazioarteko topaketa erreferentea bilakatu da harremanak finkatzeko, enpresen arteko lankidetzak sustatzeko eta negozio-akordioak ixteko.

Basque Industry 4.0 The Meeting Point ekitaldiak urrats bat gehiago emango du bere seigarren edizio honetan eta erronka berriei egingo die aurre, hain zuzen ere azken urteotako errealitate industrialak ezartzen dituen eta gure jardueraren segurtasunarekin lotuta daudenei. Jarduera industrialak, 4.0 Industria, industria aurreratua eta industria teknologiko eta digitalizatua segurtasun osoz eta guztiz babestuta garatu behar dira, eta horregatik, ekitaldia gero eta handiagoa da, zibersegurtasun arloko ezagutzak eta esperientziak eskaini ahal izateko.

4.0 Industriaren beste teknologia bat da, ezinbestekoa antolakuntza eta kontrol maila berri bat lortzeko, eskaeran hasten dena eta bere baitan hartzen dituen produkzioa, entrega, salmenta ondorengo zerbitzua, mantenimendua eta amaierako birziklapena.

## VI. EDIZIOKO ZENBAKIAK



5000 metro koadroko azalera



95 hizlari



2.000 partaide baino gehiago



170 erakusketari; horietatik, 106 startupak dira

Basque Research & Technology Alliance (BRTA)



2019ko BIND 4.0 programako 80 startup

## Zer eskaintzen du?

# 1.0

### 4.0 networking handiena

Ekitaldiak elkarrekin konbinatzen ditu punta-puntako hitzaldiak, kasuen aurkezpenak, tailerrak, elkarrizketak, mahai-inguruak, erakusketak eta erakustaldi-gune bat.

Kongresuan osoko bilkurak eta aldi bereko saioak egingo dira, erakusketa-gune zabal bat egongo da 4.0 teknologiak eskaintzen dituzten enpresentzat, beste gune bat tailerrentzat, 4.0 industriarako konponbideen "gamifikazioarekin" esperimentatzeko txoko bat eta networking-gune bat.

Bestalde, Basque Industry 4.0 topaguneak formula onenak bilatu nahi ditu ezagutzak partekatzeke eta, beraz, egitaraura bildutako ekitaldi guztietan sustatuko dira elkarrizketa, iritzi trukea, entzute aktiboa, enpresa arteko lankidetzeta eta networking-a.

# 2.0

### 4.0-ko joerak

Industriaren eta eskaintza teknologikoaren munduko aditu garrantzitsuen ikuspegia deskubrituko dugu. Enpresa-proiektuak eta -kasuak; zibersegurtasuna industria orokorrerako eta, bereziki, sektore garrantzitsuetarako; konponbide teknologikoak eta ekintzailletza ekimenak, BIND 4.0 programako kolaborazio-proiektuen bitartez..



Fabrikazio gehigarria



Robotika kolaboratiboa



Sistema ziber-fisikoak



Cloud computing-a



Big Data



Errealitate birtuala



Zibersegurtasuna



Errealitate areagotua

# 3.0

## Hitzaldiak

- **Adituen ikuspegia** Garapen Sostengarriari, Adimen Artifizialari eta 4.0 Industriari buruz.
- **Industriaren munduko pertsona garrantzitsuen iritzia 4.0 Industria berriak** eta Zibersegurtasunak berekin dakartzaten eta datozen urteetan gainditu beharko dituzten erronkei buruz. Ikuspegia, egoera, etorkizuna, estrategiak, giltzarriak, iritzia, e.a.
- **Prozesu industrialak digitalizatzeko konponbide teknologikoak**, esaterako hauek: Diseinua, Ingeniaritza, Produktzioa, Mantenimendua, Hornikuntza, Logistika, Salmentak, Bezeroarentzako euskarria... eta 4.0 teknologia aurreratuenak: Cloud Computing-a, Robotika kolaboratiboa, Sistema ziber-fisikoak (CPS), Errealitate birtual eta areagotua, Zibersegurtasun industriala, Sentsorika, Gizaki – Makina interfaze aurreratuak, Datu industrialen analitika (Big Data), Fabrikazio gehigarria, Adimen artifiziala, Blockchain, ...
- **Zibersegurtasun-teknologiaren industriako aplikazioa sustatzeko saioak.**
- **4.0 Industriaren teknologia bideratzaileak –Industrien** eta Startupen arteko lankidetzatik eratorriak– aplikatzeko proiektuen frogak. BIND 4.0.

# 4.0

## Tailer praktikoak

- **FIRST BILBAO - Technical Colloquia.** Technical Colloquia ekitaldi honek 10 saio ireki izango dituena, segurtasun arloko adituek emango dituztenak, informazioa partekatu dezaten ahultasunei, gertakariari eta tresnei buruz eta gertakarietako segurtasun eta erantzun lantaldeen zereginetan eragina izan dezaketen arazoei buruz.
- **Zibersegurtasun industrialari,** gertakarien kudeaketari eta sektore garrantzitsuei buruzko tailer praktikoak.
- **Teknologiari buruzko tailer praktikoa basque industry 4.0.** Teknologo artean teknologiaz hitz egiteko aukera "ikasgela" formatuan. Adituen eskutik kontzeptu eta teknologiei buruz ikasi nahi duten profil teknikoko pertsonentzat.
- **GAIA Elkarteak tailer praktikoa eskainiko ditu** osoko bilkurak egiten diren bitartean. Tailer horietan aztertuko da nolako gaitasuna duten gamifikazio teknologiek –Errealitate Birtuala, Errealitate Areagotua, Simulazioa... – industria baten fase desberdinetan. Tailerretako leku kopurua mugatua da, eta parte-hartzaileek aukera izango dute hainbat enpresatan erabiltzen diren aplikazioekin esperimintatzeko eta aztertzeko zer erabilera eman dakiekeen gamifikazio teknologiei euren antolakundeetan.

# 5.0

## Bisitatu 4.0 Industriarako teknologia- eta zerbitzu-eskaintza handiena duen

Aurreko edizioan 130etik gora enpresak parte hartu zuten stand-gunean eta ekitaldia nazioarteko erreferente bihurtu zen kontaktuak egiteko, enpresa arteko lankidetzak sustatzeko eta negozio-akordioak ixteko.

En esta edición la zona expo crece hasta los 170 stands en la que estarán los centros tecnológicos del Basque Research & Technology Alliance (BRTA), las principales empresas de la Industria 4.0 vasca y las startups de las ediciones BIND 4.0.

# 6.0

## BIND 4.0 Startup Zone

Erakusketa eta topaketak BIND 4.0 programaren 2019ko edizioan parte hartu duten startupen eta industria teknologikoen artean. Ekintzaitza teknologikoak ere izango du bere txokoa "Basque Industry 4.0" ekitaldian, non aurkezpenen bidez azalduko den nolako aurrerapenak lortu dituzten BIND 4.0 programako industrietan eta startupen elkarlanean garatu dituzten proiektuetan.

Aukera izango dugu BIND 4.0 programak aukeratutako startupak ezagutzeko eta haiekin harremanetan jartzeko. Gehienek puntako teknologiek lotutako proiektuak garatzen dituzte:

- INTERNET OF THINGS
- CYBERSECURITY
- ADDITIVE MANUFACTURING
- ROBOTICS
- BIG DATA
- ANALYTICS
- ARTIFICIAL VISION
- AUGMENTED/ VIRTUAL REALITY AND ARTIFICIAL INTELLIGENCE

Gainera, Bind4.0 programaren 2019ko edizioa interesdun enpresen esanetara jarriko dira, eraldaketa digitala zein negozio berrien garapena bultzatzen dituzten disrupzioak ezagutzera emateko.





Nori zuzenduta dago?

Diziplina anitzeko ekitaldi bat da, zeinetan elkarrekin konbinatzen diren estrategia, iritziak, teknologia, esperientziak eta tailerrak, eta non harremanak sustatzen diren. Ezaugarri horiekin, ekitaldi egokia bihurtu da **edozein sektoretako enpresentzat**.

Berdin interesgarria da unibertsitateentzat, teknologia-zentroentzat, aholkularitza eta ingeniartzako enpresentzat, administrazio publikoarentzat eta industria arloa bideratutako zerbitzu enpresentzat, eta, funtsean, laugarren iraultza industrialaren eta zibersegurtasunaren alderdi guztiak hurbiletik ezagutu nahi dituen edonorentzat.

# EGITARUA 4.0 INDUSTRIA ETA ZIBERSEGURTASUNA

Asteazkena, azaroak 20

- 9:30** Hasiera, Ongi-etorria, Basque Industry 4.0 Estrategia  
Osoko bilkura – A aretoa
- 10:00** Osoko bilkura - A aretoa  
Keynote: "Ongia komunerako 4.0 Industriadantza" (ESP) -> (ENG)  
• **Nuria Oliver**  
Chief Data Scientist - Data-Pop Alliance y Chief Scientific Advisor - Vodafone Institute
- 11:00** **KAFEA - NETWORKING-a**  
Erakusketa-gunea 
- 12:00** Osoko bilkura - A aretoa  
Keynote: "Ziurgabetasun agertoki baten aurrean, zibersegurtasun eredu iraunkor bat nola eraiki". (ESP) -> (ENG)  
• **Daniel Madrid**  
Director - Information Security Consulting Iberia Practice Leader - GARTNER Consulting
- 12:45** Osoko bilkura - A aretoa  
4.0 DATUAK: Datuak ireki eta partekatu ingurune industrialean" (ESP) / (ENG)  
• **Alberto Abella**  
COTEC, Director - Desidedatum  
• **Thorsten Huelsmann**  
International Data Spaces Association IDSA  
• **Oscar Lázaro**  
Innovalia Association  
• **Cristina Oyón**  
SPRI
- 13:45** **BAZKARIA – NETWORKING-a**  
Erakusketa-gunea 

## Saio paraleloak: 4.0 PROZESUAK

- 15:15** **A aretoa**  
Diseinua, Ingeniaritza, Produkzioa, Mantenimendua
- **Francisco Huertos**  
Soluciones avanzadas de digitalización para la optimización de procesos industriales (ESP) -> (ENG). Ikertzailea - LORTEK
  - **Eric Martin Cañete**  
Mantenimiento predictivo en aviones (ESP) > (ENG). Chapter Lead - PLAIN CONCEPTS
  - **Iñaki Grau**  
NAIA 4.0: Gestión eficiente de la energía en sistemas cyber-físicos conectados (ESP) - > (ENG). Eragingarritasun energetikoko arduradun tekniko - GESTAMP
  - **Eduardo Novoa**  
Telegestión de activos en campo. (ESP) -> (ENG). Zuzendari komertziala - LKS, S.Coop
  - **Iñigo Losada**  
Mantenimiento avanzado 4.0 de instalaciones (ESP) -> (ENG). Ingeniaritza Saileko arduraduna - SARENET
  - **Jabier Patiño Rodríguez**  
Robótica colaborativa: 5 claves para una implantación de éxito. (ESP) -> (ENG)  
Negozio- garapen arduraduna - MC APLICACIONES
- B aretoa**  
Hornikuntza, Logistika, Salmentak eta Bezeroarentzako euskarria
- **Nora Etxezarreta**  
¿Cómo construir una Pyme data-driven? (ESP) -> (ENG). Smart Manufacturing eta Big Data aholkularia - IBERMATICA
  - **David Marco Freire**  
Gestión de riesgos en la cadena de suministros (ESP) -> (ENG)  
OT Security Manager - ACCENTURE
  - **Jesus Angel Bravo**  
Cobots en la industria: Robots de servicio, Aplicaciones Cloud e inteligencia Artificial para Robots. (ESP) -> (ENG).  
CEO - CAMP TECNOLOGICO
  - **Juan Carlos Martinez**  
Soluciones IoT e Inteligencia Artificial en la logística (ESP) -> (ENG).  
Business Development Manager IoT - AMAZON WEB SERVICES
  - **Javier Ferrer**  
Rastreo y seguimiento total de toda la cadena de suministro para la industria 4.0 (ESP) -> (ENG). CEO - WITRAC



9:00

## A aretoa

### Teknologia bideratzailea

- **Jose Antonio Lorenzo**  
Barreras técnicas y mentales en la introducción de tecnologías disruptivas en la empresa vasca (ESP) -> (ENG)  
R&D Team Architecture and Software Development Engineer - LANTEK SHEET METAL SOLUTIONS, S.L.
- **Miguel Angel Barea**  
Blockchain aplicado al ecosistema del vehículo autónomo (ESP) -> (ENG)  
Director área Identidad Digital - INYCOM
- **Jaume Homs**  
Fabricación digital en serie. Más allá de la velocidad y el coste. (ESP) -> (ENG)  
Responsable de ventas - HP 3D PRINTING
- **Roquefere Romain**  
Virtual assistants dedicated to the industrial sector. (ENG) -> (ESP)  
Socio Fundador - HUPI IBERICA
- **Cesim Demir**  
5G enables fully digital transformation in the manufacturing. (ENG) -> (ESP)  
CTO Manufacturing & Automotive Solutions - HUAWEY
- **Santiago Perez**  
Inteligencia Artificial en la Industria, el ejemplo de los Barcos Conectados (ESP) -> (ENG). GTM-Digital Infrastructure - NTT

10:30

### BIND 4.0. arloko 4 kasu

- **Sidenor-Immersia**  
- Iñigo Legua. Sidenor Aceros Especiales  
- Seda Tosun. Immersia
- **Bti-Samylabs**  
- José Ramón Rivero  
- Jon Martínez. Inser Robótica
- **ABB-Engidi**
- **Mercedes Benz-Neuron Soundware**

11:30

### KAFEA – NETWORKING-a

Erakusketa-gunea



12:00

## B aretoa

Through the eyes of the Attacker: Designing Embedded Systems Exploits for ICS (ENG) -> (ESP)

- **Marina Krotofil**  
Senior Security Engineer - BASF

12:30

## B aretoa

Talent and Diversity: Women's Role in Cyber. (ENG) -> (ESP)

- **Ana Ayerbe**  
TRUSTECH - TECNALIA
- **Anett Madi-Natór**  
Senior Cyber Defence Expert
- **Nina Hasratyan**  
Policy Manager & Liaison with Stakeholders - European Cyber Security Organisation

13:00

## B aretoa

Cybersecurity Product Certification for Industrial Connected Devices. (ESP) -> (ENG)

- **Carlos Abad (Moderador)**  
ZIUR
- **Sergio Lomban**  
Digital Trust Services - SGS Group
- **David González**  
Industrial Security Team Leader - IKERLAN

## B aretoa- Zibersegurtasuna

Welcome remarks (ENG) -> (ESP)

- **Javier Diéguez**  
Basque Cybersecurity Centre

**9:10h Engineering Out The Cyber Risk To Protect What Matters Most (ENG) -> (ESP)**

- **Andrew Bochman**  
Senior Grid Strategist - US Dep. of EnergyLinkedin
- **Samuel Linares**  
Managing Director - Europe and Latin America ICS Security Lead for Energy, Utilities, Chemical and Natural Resources - ACCENTURE

**9:10h Cybersecurity and the Implications for Private Investment in Critical Infrastructure**

- **Amanda Wallace**  
Managing Director - JP Morgan

**10:10h Global EPIC - Building a Global Network of Cybersecurity Hubs (ENG) -> (ESP)**

- **Godfrey Gaston**  
Director - Centre for Secure Information TechnologiesLinkedin
- **Katie Stebbins**  
Vice President of Economic Development - University of Massachusetts
- **Roni Zehavi**  
CEO - Cyberspark

**10:50h Cybersecurity for Robotics. (ENG) -> (ESP)**

- **Bernhard Dieber**  
ROBOTICSLinkedin
- **PonenteEndika Gil-Uriarte**  
Alias Robotics

# TAILERRAK

## FIRST BILBAO. Technical Colloquia

Azaroak 20, 21

tailerra I Tokia: C1. aretoa I

Hizkuntza: Ingelesez

FIRSTeko (zibersegurtasun arloko gertakarietarako erantzuteko lantaldeen munduko foroa) kide den Basque Cybersecurity Center-ek FIRST Bilbao Technical Colloquia eztabaida-foroa antolatu du FIRSTeko kideentzat eta gonbidatuentzat, informazioa partekatu dezaten ahultasunei, gertakarietarako eta tresnei buruz eta gertakarietako segurtasun eta erantzun lantaldeen zereginetan eragina izan dezaketean arazoei buruz.

Basque Cybersecurity Center-ek erabaki du Technical Colloquia ekitaldi honek 10 saio ireki izango dituela, segurtasun arloko adituek emango dituztenak, zeintzuek gai teknikoak landuko baitituzte parte-hartzaile talde txikiekin eta oso modu interaktiboan. FIRSTeko kideei eta profil teknikoko pertsonetarako tailer horietan 100 parte-hartzaile onartuko dira gehienez.



ZIBERSEGURTASUN EUSKAL ZENTROA  
CENTRO VASCO DE CIBERSEGURIDAD

## EGITARAUA. FIRST BILBAO, Azaroak 20

- 10:00** There are two types of TTPs: actionable or useless (ENG)  
• **David Barroso**  
Countercraft
- 10:30** Medida de eficiencia de soluciones para riesgos de sistemas industriales usados en infraestructuras críticas de agua (ENG)  
• **Gerard Vidal**  
Enigmedia
- 11:00** Erakusketa-gunea
- 11:30** KAFEA 
- 12:00** Keynote: "Cómo construir un modelo de ciberseguridad resistente ante un escenario de incertidumbre".
- 12:45** Don't try to steal from a malware analyst or this will happen... (ENG)  
• **Mariano Palomo**  
Malware
- 13:15** Digital Surveillance of election campaigns (ENG)  
• **Adrián Antón**  
Cybersecurity
- 13:45** BAZKARIA – NETWORKING-a 
- 15:15** Massive Cloud Compromise (ENG)  
• **Carlos Sánchez**  
CERT and Cybersecurity
- 16:15** How to automate software security (ENG)  
• **Roberto Velasco**  
CEO and founder Hdiv Security
- 16:45** EuskalHack Social Engineering Capture The Flag (ESP)  
• **Angel Alonso**  
Chief Information Officer en Dikar S.Coop.

Azaroaren 21ean jarraituko du (Eskuratu programa osoa ekitaldiaren webgunean)



# ZIBERSEGURTASUN INDUSTRIALA

**azaroak 20**

10:30 - 18:00h. aretoa C2

## Tailerrean landuko diren gaiak:

- Automatizazio industrialeko teknologiak eta eszenatoki arriskutsuak.
- Erabilpen industrialeko kasu bat.
- Diagnostikoaren ezaugarriak.
- Metodologia eta elkarrizketak.
- Diagnostikoaren ezaugarriak.
- Sistemen diagnostikoa.
- Segurtasun fisikoaren diagnostikoa.
- Hirugarren zatien diagnostikoa.
- Diagnostikoaren txostena eta txostenaren aurkezpena.


## Adimen Bisualari buruzko Tailerrak

**Azaroak 20, 21**  
aretoa - GAIA

GAIA Elkarrekin tailer praktikoak eskainiko ditu osoko bilkurak egiten diren bitartean. Tailer horietan aztertuko da nolako gaitasuna duten gamifikazio teknologiek industria baten fase desberdinetan:

- Errealitate birtuala
- Errealitate areagotua
- Simulazioa

Tailerretako leku kopurua mugatua da, eta parte-hartzaileek aukera izango dute hainbat enpresatan erabiltzen diren aplikazioekin esperimentatzeko eta aztertzeko zer erabilera eman dakiekeen gamifikazio teknologiei euren antolakundeetan.



## Gela teknologikoak

**Azaroak 21 osteguna**  
Gela 1. aretoa-C2

**09:00 - 11:30**

### **BIG DATA & IOT ARKITEKTURAK**

Denbora errealean, datuak bildu, aztertu eta kudeatzeko edge/fog computing paradigma bezalako IoT kontzeptuak aurkeztuko dira, baita, Big Data arkitekturen diseinuaren eta hedatzearen eta bere inplementazioa ahalbidetzen duten teknologiaren beste oinarrien, esaterako DevOps edo Cloud-en gako nagusiak azaldu ere. Teknologia, aplikazio industrial desberdinen testuinguruan azalduko dira (ekoizpena, trazabilitatea, mantentze prediktiboa, energiaren kudeaketa...).

**12:00 - 13:30**

### **5G & G & HARIRIK GABEKO BESTE KOMUNIKAZIO BATZUK**

5G teknologiek beste belaunaldien aurrean azaltzen dituzten ezaugarri bereizgarriak azalduko dira, ezaugarri berezi hauei etekina ateratzen dieten erabilera industrialen kasu desberdinak deskribatuz eta arakatuz.

## Gela 2. aretoa-C3

**09:00 - 11:30**

### **BIKI DIGITALAK**

Aktibo fisikoen ihardespun digital batek, gailu baten bizitza ziklo osoan zehar ematen diren eskenatoki desberdinetan, gailua nola aritzen den inguruko informazioa nola aprobeztatu dezakeen, produktu eta prozesuen garapen, hobekuntza eta optimizazioarako, baita aktibo horien operazio eta mantentzerako ere. Sektore eta esparru industrial desberdinetan kontzeptu honen aplikazio desberdinak erakutsiko dira.

**12:00 - 13:30**

### **FABRIKAZIO ADITIBOAK**

Fabrikazio aditiboak, erabilera kasu anitzetarako material mota desberdinak erabiltzen dituzten lanei bideratutako makina bat teknologia barne hartzen ditu. Teknologia desberdin hauek adituek euren azken garapenak azaldu eta sektore industrial desberdinetan aplikatutako proiektuen adibideak erakutsiko dituzte.

## HIZLARIAK



**Ana Ayerbe**

TRUSTECH Negozio Arloko  
zuzendaria TECNALIAN.

Ana Ayerbe is the Manager of TECNALIA TRUSTECH Business Area where she works in trying to create trust in the digital and hyperconnected world developing technology to reinforce the digital immunological system of companies and society. She is enthusiastic of new technologies like the Internet of Things, Distributed Ledgers and Artificial Intelligence and the challenges and opportunities they offer related to Cybersecurity. Member of the Board of Directors, Strategic Committee and Partnership Board of ECSO, member of the Strategic Board and Board of Director of EOS and RENIC Board of Directors, in 2019 she has also taken part in the Expert Committee for the elaboration of the Spanish Cybersecurity National Strategy. Finally, Ana is mentor of the INSPIRA STEAM project that tries to stimulate scientific and technological vocations among girls and member of the Council of the WOMEN4CYBER initiative.



**Alberto Abella**

COTEC, Director - Desidedatum

Alberto Abella is the PhD in Business (open data) and a Telecommunications Engineer and a Master in Total Quality Management, in Business Administration and in business organization. He is an evaluator of European data projects and participant in several projects on innovation and data use with artificial intelligence. He works as Senior manager at desideDatum in the business lines of data, data-reusability, open data, big data .. He is a researcher in the fields of reusability of information, open data, big data, in different environments such as Smart cities. He has also researched in the field of citizen experience. He has been founder and is a member of the board of directors of the Barcelona Open data Initiative.



**Andrew Bochman**

Senior Grid Strategist - US  
Dep. of Energy

Andy provides strategic guidance on topics at the intersection of critical infrastructure security and resilience to senior U.S. and international government and industry leaders. Before joining INL, he was a USAF communications officer, was the Global Energy & Utilities Security Lead at IBM, and a Senior Advisor at the Chertoff Group in Washington, DC. A subject matter expert listed with the U.S. State Department Speakers Bureau, he recently trained Black Sea and Balkan region energy regulators on cyber-physical cybersecurity. His most recent publications include "The Missing Chief Security Officer" (CXO) and "The End of Cybersecurity" (HBR), and "Supply Chain in the Software Era" (Atlantic Council).



**Daniel Madrid**

Responsable de Information Security & Risk Management para Iberia - Gartner Consulting

**Daniel Madrid** is the Director of Information Security & Risk Management for Iberia at Gartner Consulting. He has more than 17 years of experience in consulting on technological risk management and cybersecurity, mainly strategic (Development of Security Master Plans, Definition of Organisational Security Models, Risk Management, Reporting to Senior Management, etc.).

Throughout his career, he has acquired extensive knowledge in the following industries: Banking, Public Sector, Manufacturing, Consumer Goods and Distribution, Health and Pharma, among others. He is a CISSP, CISA, CISM, CRISC and ISO 27001 Lead Auditor.

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**David González**

Industrial Security Team Leader - IKERLAN

**David González**, is an Automation and Industrial Electronics Engineer from Mondragon University (2005) and has a Master's degree in Signal Processing and Communications from the University of Edinburgh (2006). He has been a Researcher at the technological centre IK4-IKERLAN since 2007 and has served as head of the Cybersecurity in Embedded Systems research team since 2016. He has accumulated more than 10 years of experience in the design and development of embedded platforms for the health and energy industries. He has participated in R+D projects for companies, being responsible for collaboration in the aerogeneration sector and contributing to the development and maintenance of a wind turbine supervision and control system with real-time requirements, functional security and cybersecurity. In the past, he led research activities in well-known platforms, focused on new hardware architecture, virtualisation and mixed criticality systems and participated in various research projects at the national and European level.

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**Godfrey Gaston**

Director - Centre for Secure Information Technologies

Dr **Godfrey Gaston** graduated with a MEng degree in Electrical and Electronic Engineering at Queen's University Belfast (QUB), UK followed by a PhD at The University of Edinburgh.

He spent a number of years working for GEC Plessey Semiconductors and Engineering Manager for a technology start-up, BCO Technologies, followed by Analog Devices.

Godfrey is currently Director of the Centre for Secure Information Technologies (CSIT), based at Queen's University Belfast ([www.csit.qub.ac.uk](http://www.csit.qub.ac.uk)). He has expertise in commercialisation within an open innovation research environment. His current interests include the creation of cyber innovation ecosystems and linking these systems up internationally.

Godfrey has also completed an MBA from Henley Management College, London and is co-founder of cybersecurity startup company, Titan IC.

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**Katie Stebbins**

Vice President of Economic Development - University of Massachusetts

**Katie Stebbins** is the vice president for economic development for the University of Massachusetts, a five-campus, 75,000-student public research university system, based in Boston. Katie represents the University in state competitiveness initiatives such as cybersecurity, life sciences, clean energy, robotics and advanced manufacturing. She serves as a liaison to the business community, establishing and growing research and workforce development partnerships to benefit the University and the Commonwealth of Massachusetts. Katie also oversees the Office of Technology and Commercial Ventures, the UMass Donahue Institute, and is the founder of the Massachusetts Cyber Education Training Consortium (CETC), a consortium of 35 colleges and universities offering cyber degrees. Katie was previously Assistant Secretary for Technology, Innovation and Entrepreneurship for the Commonwealth of Massachusetts, where she led state investment efforts in health-tech, robotics, advanced manufacturing and cyber security. A 20-year veteran of public service and economic development, Katie has launched three of her own companies, and actively mentors youth seeking career pathways. Katie earned her bachelor's degree from the University of Colorado at Boulder and a master's from the University of Massachusetts at Amherst.

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**Marina Krotofil**

Senior Security Engineer- BASF

**Marina Krotofil** is an Industrial Control Systems (ICS) Senior Security Engineer at a large chemical company. The last decade she spent on specializing on offensive ICS security such as discovering and weaponizing unique attack vectors, engineering damage scenarios, developing exploits and understanding attacker techniques when exploiting ICS. Offensive security skills serve Marina well during incident responses and forensic investigations, ICS malware analysis and when engineering defenses. She previously worked as a Principal Analyst and Subject Matter Expert (SME) in Cyber-Physical group at FireEye (USA), Lead Cyber Security Researcher at Honeywell (USA) and as a Senior Security Consultant at the European Network for Cyber Security (Netherlands). She authored more than 25 academic papers and book chapters on ICS security and is a frequent speaker at the leading security events around the world. She holds MBA in Technology Management, MSc in Telecommunication and MSc in Information and Communication Systems.

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**Nuria Oliver**

Nuria Oliver es Chief Data Scientist en Data-Pop Alliance y Chief Scientific Advisor para el Vodafone Institute

**Nuria Oliver** es Chief Data Scientist en Data-Pop Alliance y Chief Scientific Advisor para el Vodafone Institute. Es ingeniera superior de Telecomunicación por la UPM y doctora por el Massachusetts Institute of Technology (MIT) en Inteligencia Perceptual. Tiene más de 20 años de experiencia investigadora en MIT, Microsoft Research (Redmond, WA) y como primera directora científica (mujer) en Telefónica I+D y en Vodafone.

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**Oscar Lázaro**  
Innovalia Association

**Prof. Dr Oscar Lazaro** es ingeniero de telecomunicación por la Universidad Politécnica de Valencia, Doctor y Catedrático por la Universidad de Strathclyde (Glasgow, UK) y Executive MBA por la Universidad de EHU-UPV. Con más de 20 años de experiencia, Oscar Lazaro es el actual Director de la Asociación Innovalia, Unidad Empresarial de I+D+i del Grupo Innovalia.



**Roni Zehavi**  
CEO - Cyberspark

In the past 5 years Roni has lead CyberSpark, an industry initiative, created to advance research and development of cyber solutions in Beer-Sheva, and has turned it into a leading brand globally. Roni has more than 15 years of proven success in the entrepreneurial Hi-Tech arena, integrating highly-innovative and multidisciplinary technologies into sellable products.



**Samuel Linares**  
Managing Director Europe and Latin America ICS Security Lead for Energy, Utilities, Chemical and Natural Resources

**Samuel Linares** is Managing Director, Europe and Latin America ICS Security Lead for Energy, Utilities, Chemical and Natural Resources at Accenture, Independent Evaluator at European Commission, CIIP Expert at ENISA (European Network and Information Security Agency) and member of ISACA Global Cybersecurity Task Force. With more than 2 decades of security, system integration and multinational and multicultural projects management experience.



**Francisco Huertos**  
Ikertzailea - LORTEK

2016 Master's degree in Systems and Control Engineering; U. Complutense of Madrid (UCM) and UNED.  
2002 Degree in Automation and Industrial Electronics Engineering; Mondragon University (MU)  
1999 Technical Industrial Engineering Degree in Electronic Engineering; University of the Basque Country / Euskal Herriko Unibertsitatea (UPV/EHU). Jul. 2018 – Present: Senior Researcher at IK4-LORTEK: Process control for welding and laser fabrication in the Control and Assessment area.





**ERIC MARTIN**

Chapter Lead - PLAIN CONCEPTS

AI Chapter Lead en Plain Concepts. Apasionado de la Inteligencia Artificial. Siempre tratando de estar a la última en todo lo relacionado con el Cloud, algoritmos, tecnologías y predicciones.

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**Iñaki Grau**

Eragingarritasun energetikoko arduradun teknikoa - GESTAMP.

**Iñaki Grau** has a degree in Industrial engineering (specialising in electricity). He obtained a Master's degree in Renewable Energy and Distributed Generation in Edinburgh and a PhD at the University of Cardiff, where he wrote his thesis on the management of electric vehicle battery charging and microgeneration. During his PhD, he was in charge of the University of Cardiff's participation in several European projects: EU projects Mobile Energy Resources in Grids of Electricity (MERGE) and Distributed Energy Resources Research Infrastructures (DERri).

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**Eduardo Novoa**

LKS, S.Coop. Zuzendari komertziala

Telecommunications Engineer with +20 years of experience in consulting and business development through the implementation of IT technologies for business transformation. Providing business strategy skills, solution design, sales execution and management of IT projects in the following areas: Strategic IT Planning, Industrial Digitalisation, ERP, CRM, HCM, Business Intelligence, IoT and Mobility, among others.

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**Iñigo Losada**

SARENET. Ingeniaritza Saileko arduraduna

SAREIN SYSTEMS DEPARTMENT 2015-2017 Managing local GNU/Linux networks, firewalls and teaching courses on GNU/Linux, virtualisation and conducting security audits with Zeed Security EAIS software.

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**Jabier Patiño Rodríguez**

MC APLICACIONES. Negozio- garapen arduraduna

Industrial Engineer (University of the Basque Country) and has an MBA (Boise State University), with more than fifteen years of experience in the US and the Basque Country inspecting industrial plants as well as process improvement and automation consulting. Teaches classes in SmartGrid at UPV.

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**Nora Etxezarreta**

IBERMATICA. Consultora Smart Manufacturing y Big Data

- Honours Degree Program at Center for Digital Technology Management (CDTM), Munich
  - M. Sc. Electrical Engineering and Information Technology, Technical University Munich
  - Grado en Ing. Tecnologías Industriales Tecun.
  - Participante en Mesa Redonda en Asamblea Anual de GAIA
  - Presentación de 30 minutos sobre Smart OEE Analytics en Hannover Messe
  - Impartí curso de Big Data y Machine Learning en Universidad de Murcia
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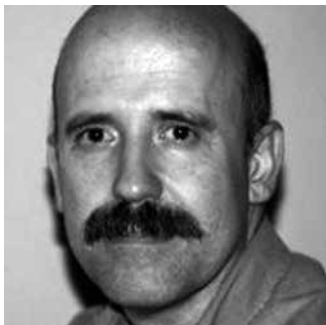


**David Marco**

ACCENTURE. OT Security Manager

I have worked in the Industrial Cybersecurity field for more than 10 years. I started implementing cybersecurity measures in Oil&Gas projects with Técnicas Reunidas for clients such as SABIC, ARAMCO, GALP, PEMEX, PETRONAS, BOROUGE, GALP, etc

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**Jesús Ángel Bravo**

CAMP TECNOLÓGICO. CEO

Degree in Physics from UPV/EHU, founder of Softec and 10 more companies in the technology sector. Since 2001, he has been promoting the Camp Tecnológico, a project that provides technology training from an early age. In 2019, Camp Tecnológico created the Business Robotics line as an official Spanish Partner of Cobot manufacturers (Collaborative Robots), Franka Emika from Germany and Dobot from China and the manufacturer of Rochu pneumatic silicone grippers specialised for Food Industries, Laboratories, Textiles.

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**Juan Carlos Martínez**  
AMAZON WEB SERVICES. Business  
Development Manager IoT

PhD in physics with ten years of experience in the design and development of business applications in SAP and cloud. Specialises in management strategies and distribution of business master data. Consolidation and harmonisation of master data. Currently serves as specialist in the application of IoT solutions integrated with AWS to industrial processes, machine tools, being involved in the most cutting-edge uses.

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**Javier Ferrer**  
WITRAC. CEO

**Javier Ferrer** is an entrepreneur and businessman from Valencia, graduated with a degree in Industrial Engineering from the Polytechnic University of Valencia and specialised in the management of manufacturing systems. Also an expert in the design of digital business transformation processes, Javier Ferrer has led strategic consulting and business development projects for multinationals in the food, industrial and logistics sectors, among others, for more than 10 years.

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**Jose Antonio Lorenzo**  
LANTEK SHEET METAL SOLUTIONS, S.L.  
R&D Team Architecture and Software  
Development Engineer

**Jose Antonio Lorenzo** has a PhD in Physics with more than 10 years of experience developing technological innovation projects through hardware and software development.

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**Miguel Ángel Barea**  
Identitate Digilata Saileko zuzendaria

**Miguel Angel Barea** is Director of the Digital Identity Area at Inycom. More than 20 years of experience in the management of electronic signatures and certificates, PKIs, timestamps, Certification Authorities Administration, smart cards and electronic invoicing systems. Since 2017, he has participated in the design of digital identity solutions applied to blockchain technologies, among others.

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**Jaume Homs**

HP 3D PRINTING IBERICAko salmenta arduraduna

**Jaume Homs** is the Sales Manager of HP's 3D Multi Jet Fusion Business. This position includes Spanish and Portugal responsibility of management and sales of HP's 3D Printing Multi Jet Fusion line of solutions. Main team is based in Barcelona, Spain.

Jaume joined HP in 2002 in the R&D organization as a software engineer and project manager. Since then he has held different positions in R&D, Marketing, Sales and Business Management.

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**Roquefere Romain**

HUPI IBERICA. Bazkide sortzailea

Co-Founder: HUPI and HUPI IBERICA: Software Company specialized in Artificial Intelligence since 2013-Laureate of the 1st edition of the BIND 4.0 program. 20 years of international experience in Technology and Strategy Consulting in Global Firms Education. Engineering Degree: top French Engineering School (1998). MBA in Strategy: one of the 10 best MBA programs in the world (2004) Conference. 20+ conferences ran for Chamber of Commerce, 4 years teacher in engineering and business schools.

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**Cesim Demir**

HUAWEY. CTO Manufacturing & Automotive Solutions

I am a German Citizen, I hold Master's and PhD degree in electrical engineering from Germany. After having my PhD with BMW in the area of modelling and simulation of vehicle behavior. I started my career in 2000 in Germany at Daimler AG as development engineer for ECU development, InCar diagnosis applications and ECU embedded software. I joined end 2017 Huawei and currently based in Munich/Germany. I am covering the solutioning and business development lead role for manufacturing space in Western Europe.

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**Santiago Perez**

NTT. GTM-Digital Infrastructure (ESP)

Computer Engineer with more than 15 years of experience in the telecommunications sector, specializing in Data Engineering.

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**Amanda Wallace**  
JP Morgan. Managing Director

Amanda Wallace, Managing Director, is the Head of the Fund Execution Team in the Infrastructure Investments Group, the group within J.P. Morgan Asset Management that is responsible for the development and administration of infrastructure products, including investment acquisition and asset management processes. Before joining the firm in 2014, Amanda provided legal and financial consulting services to a variety of clients, including multiple infrastructure focused funds in different stages of development.

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**Nina Hasratyan**  
Policy Manager & Liaison with  
Stakeholders - European Cyber Security  
Organisation (ECSO)

**Nina Hasratyan** joined the European Cyber Security Organisation (ECSO) in February 2017, where she currently works on topics related to gender inclusion, education/awareness, transportation and public services in cybersecurity. She is the operational coordinator of the Women4Cyber initiative launched by ECSO to promote the participation of women in the cybersecurity field. Previous experience includes positions at Friends of Europe, a European think tank, and the Mission of Armenia to NATO. Nina has a degree in international relations with a specialisation in security, peace and conflicts from the Free University of Brussels.

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**David Barroso**  
CounterCraft Bazkide sortzailea

**David Barroso** has been working in security for more than 20 years, in aspects as different as response to incidents, intelligence, or security in networks and systems. He is currently the founder of CounterCraft, whose goal is to help companies and governments around the world to define and deploy digital counterintelligence campaigns.

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**Gerard Vidal**  
CSO Enigmedia

Doctor in Physics, Master in Complex Systems and Master in Telecommunications Engineering. Founder of the industrial cybersecurity company Enigmedia. Alexander Fleming Award from the London Business School. More than 20 scientific publications in international journals. Associate Professor at the University of Navarra and University of Mondragón.

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**Mariano Palomo**  
Malware analys

Graduated with a Bachelor's in Computer Engineering from the University of Granada, passionate about Cybersecurity: reverse engineering, malware analysis and research to be more precise. Currently working as a Malware Analyst at Entelgy Innotec Security together with other experts in the field.

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**Adrián Antón**  
Cybersecurity analys

As a CSIRT-CV security analyst, I am interested in the geostrategic part of the security and in the search of the social motivations behind each attack. I am also attracted to malware in general (analysis and development) and exploiting.

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**Carlos Sánchez**  
Director del Área de CERT y  
Ciberseguridad

**Carlos Sánchez** es el Director del Área de CERT y Ciberseguridad de ITS Security, donde es responsable de administrar equipos altamente técnicos con respecto al gobierno de la seguridad de la información. Su conocimiento equilibrado entre negocios y habilidades de seguridad en entornos de IT (Information Technology) y OT (Operational Technology) le permite ejecutar y supervisar programas de Ethical Hacking según las metodologías de OSSTMM, OWASP, OWISAM, NIST, PTES e ISSAF, y bajo requisitos específicos, como PCI DSS y la Ley de Privacidad española.

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**Angel Alonso**  
Chief Information Officer en Dikar S.Coop.  
y miembro de la asociación de seguridad  
EuskalHack

Chief Information Officer en Dikar S.Coop. y miembro de la asociación de seguridad EuskalHack. Ha participado activamente en la organización de EuskalHack Security Congress durante las últimas tres ediciones, y ha sido el principal impulsor de EuskalHack SECTF 2019.

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**Carlos Abad**

Director general de la fundación ZIUR

Con más de 12 años de experiencia en la industria ICT, en sectores donde la coexistencia IT/OT es necesaria, actualmente desempeña el rol de Director General de la Fundación ZIUR, Centro Avanzado de Ciberseguridad de Gipuzkoa. Su objetivo es la puesta en marcha y lanzamiento del Centro, desplegando una estrategia enfocada a reforzar las capacidades del sector industrial gipuzkoano en materia de de ciberseguridad industrial aplicada, de acuerdo al marco estratégico general de la Diputación Foral de Gipuzkoa.

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**Endika Gil-Uriarte**

Chief Scientific Officer de Alias Robotics

**Endika Gil-Uriarte** es Chief Scientific Officer de Alias Robotics. Su background es académico, trabajó en la UPV/EHU. Lidera aspectos de innovación en Alias Robotics, actualmente IP en varios proyectos europeos y nacionales. Autor de publicaciones de impacto en el sector, además contribuye activamente a estandarización como experto nacional en TC 299 (Robotics).

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**Bernhard Dieber**

JOANNEUM RESEARCH  
Forschungsgesellschaft mbH

Currently heading the robot systems research group at ROBOTICS – the institute for robotics and mechatronics in Klagenfurt, Austria. His current research interests include robotics and especially software and security for modern robots. During Bernhard's PhD he has engaged himself in resource-awareness for visual sensor networks, smart cameras and computer vision. Bernhard's overall vision is to enable future robots to be a trustworthy part of our everyday life.

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**José Valiente**

Director y Responsable de Coordinación  
y Comunicación del Centro de  
Ciberseguridad Industrial.

With more than 20 years of experience working in consulting firms, such as Davinci Consulting and Tecnomcom, involved in Security and IT projects. José is an expert in project management for large companies and public administrations. He has lead ISMS implementation projects for IBEX 35 companies and public administrations, working with top-level security teams. He has extensive knowledge of ITIL and PMI and experience in providing training to companies in the industrial sector and public administrations.

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**Javier Zubieta**

business development Manager of Cybersecurity at GMV and professor in the Cybersecurity and Privacy Master's program

With more than 20 years of experience in Cybersecurity, Javier currently directs GMV's positioning around Protection of Critical Infrastructures and Cybersecurity in Industrial Environments. He has previously been Director of Business Development of Security and Optimisation, CISO at Unitronics, also developing part of his professional career at SIA and CERN.

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**Iñigo Legua Eguidazu**

Global CIO en Sidenor Aceros Especiales S.L.

Licenciado en Administración y Dirección de empresas por la universidad del País Vasco y formado por el IE Business School en el programa Advanced Management Program (AMP), Executive Education en la edición de 2015. Con una experiencia en Sidenor de casi 20 años,

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**Seda Tosun**

Co-Founder & CEO at Immersia

Apasionada de las tecnologías emergentes, se ha dedicado su carrera empresarial a ayudar a empresas industriales en el desarrollo de su actividad internacional. En 2017, Seda puso su foco en mejorar los procesos productivos y la digitalización de la industria, especializándose en el uso de gemelos digitales, a través de su empresa Immersia.

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**Jon Martínez García**

Director de inteligencia de mercado en Inser Robótica S.A.

Ingeniero Superior en Automática y Electrónica Industrial por la Universidad de Deusto. Actualmente es el Responsable de Inteligencia de Mercado y Nuevos productos en Inser Robótica, y Director Comercial y socio fundador de SamyLabs, una empresa dedicada al diseño, fabricación y comercialización de impresoras 3D en metal de tecnología SLM (Selective Laser Melting)

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**Javier Diéguez**  
Director of the Basque  
Cybersecurity Centre

Javier has worked for the Spanish multinational company Indra during 20 years where he reached managing positions in the Cybersecurity business area. Since 2005 he has specialized in cybersecurity for electricity companies and governmental organizations carrying out strategic advisory on Cybersecurity and managing large, complex technological projects for a variety of organizations. He has also collaborated with the Spanish Ministry of the Interior for Critical Infrastructure Protection.

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**Alejandra Ventura**  
Cybersecurity researcher in the field of  
cyberintelligence technologies at INCIBE

Computer engineer from the UCLA with more than 10 years of experience working in the ICT sector, starting as developer in the private sector and with experience in project management and systems administration as well. Alejandra is currently working as a cybersecurity researcher in the field of cyberintelligence technologies at INCIBE.

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**Xavier Panadero**  
Director of the SOC/CERT  
of CESICAT

Currently, **Xavier Panadero**, develops the function of Director of the SOC/CERT of the Information Security Center of Catalonia (CESICAT) for the prevention and protection of cyber threats and the early response to cybersecurity incidents in the Catalan public administration.

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**Alberto Magallón Sábado**  
Head of CESICAT

Currently, **Alberto Magallón**, develops the function of Head of Threat Analysis of the Information Security Center of Catalonia (CESICAT) for the prevention and protection of cyber threats and the early response to cybersecurity incidents in the Catalan public administration.

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